

**Indiana Course-Aligned Assessment
Earth and Space Science – Blueprint**

Standard	Description	Percent Range *
1 – The Universe	Describe the age, origin and evolution of the universe. Describe the size and organization of stars and galaxies found within the universe.	10-20%
2 – The Solar System	Describe the age, origin and evolution of our solar system and describe the characteristics of objects in the solar system. Recognize the role of gravity and other forces in determining the motion of bodies in the solar system.	10-20%
3 – The Earth	Recognize and describe that earth sciences address planet-wide interacting systems (e.g., the oceans, the air, solid ground, and life on Earth) and interactions with the solar system. Examine the interrelationships between society and the planet-wide interacting systems and understand the basic physical and chemical laws that control these interactions.	5-15%
4 – The Atmosphere and Hydrosphere	Understand the structure and circulation of Earth’s atmosphere and hydrosphere and explain how natural and human factors may interact with these processes. Understand that both weather and climate involve the transfer of matter and energy throughout the atmosphere and hydrosphere, driven by solar energy and gravity.	15-25%
5 – The Solid Earth	Understand the structural and compositional layers of the earth, its magnetic field, and how this knowledge is based on data from direct and indirect observation. Understand how the processes of rock formation, weathering, sedimentation, and reformation continually shape the surface of the Earth.	15-25%
6 – Earth Processes	Understand the cyclical nature of processes that modify the Earth and how humans interact with these cycles. Understand the role of plate tectonics in controlling the large scale structure of Earth’s surface. Understand how the dynamic Earth impacts human society.	15-25%

* This range represents the approximate emphasis for each reporting category on the assessment.